

India Orthopedic Implants Market Report and Forecast 2025-2034

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Report description:

The India orthopedics implants market was valued at USD 2.35 Billion in 2024, driven by the rising aging population that is more prone to orthopedic diseases across the region. The market is anticipated to grow at a CAGR of 8.02% during the forecast period of 2025-2034, with the values likely to reach USD 5.08 Billion by 2034.

India Orthopedic Implants Market Overview

The implants market is experiencing strong growth, driven by an aging population, rising cases of osteoarthritis, and osteoporosis, along with increased incidence of road accidents and sports injuries. Improved healthcare infrastructure, growing awareness, and advancements in surgical techniques further support demand. The market is anticipated to grow at a CAGR of 8.02% during the forecast period of 2025-2034. A significant rise in joint replacement surgeries, particularly knee and hip implants, reflects this trend. Demand is also fueled by the need for affordable, high-quality implants, especially in tier-2 and tier-3 cities. Government initiatives like "Make in India" and partnerships enabling local manufacturing are key drivers, enhancing accessibility and reducing dependency on imported devices.

India Orthopedic Implants Market Growth Drivers

Rising Aging Population to Boost Market Demand

A key growth driver for the Indian orthopedic implants market is the rapidly aging population, particularly the rising share of individuals aged 60 and above. The Economic and Social Commission for Asia and the Pacific reports that in India, between 1950 and 2023, the proportion of people aged 60+ nearly doubled from 5.4% to 10.7%, and it is projected to reach 20.8% by 2050. Similarly, the 65+ age group is expected to more than double, growing from 7.1% in 2023 to 15.0% in 2050, while the 80+ demographic will triple during the same period. This demographic shift will lead to a substantial increase in age-related musculoskeletal conditions such as osteoarthritis, fractures, and degenerative joint diseases, thereby driving demand for orthopedic procedures and implants such as joint replacements, spinal implants, and trauma fixation devices. As life expectancy

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risers and the population ages, the need for orthopedic care and devices tailored to elderly patients is set to become a major factor fueling sustained market growth in India.

India Orthopedic Implants Market Trends

Some of the notable market trends include rising partnerships between leading academic institutions and companies.

Academic-Industry Collaborations Driving Innovation and Skill Development

One of the major market trends includes combining academic research capabilities with industry expertise to advance the design and development of orthopedic implants. For instance, in January 2025, IIT Guwahati and Miraclus Orthotech Pvt. Ltd., collaborated to advance research and development, and develop orthopedic implants tailored for local needs. It also emphasized rigorous product testing and quality assurance to enhance safety and efficacy. Additionally, the collaboration addresses the critical shortage of skilled professionals through dedicated training programs, boosting surgical capabilities and implant adoption. This trend strengthens the competitive position of Indian companies both domestically and internationally, signaling a shift towards a more integrated, innovation-driven ecosystem in the orthopedic implants sector.

India Orthopedic Implants Market Segmentation

The market report offers a detailed analysis of the market based on the following segments:

Market Breakup by Product

- Lower Extremity Implants
 - ??- Knee Implants
 - ??- Hip Implants
 - ??- Foot & Ankle Implants
- Spinal Implants
- Dental Implants
 - ??- Dental Implants
 - ??- Craniomaxillofacial Implants
- Upper Extremity Implants
 - ??- Elbow Implants
 - ??- Hand & Wrist Implants
 - ??- Shoulder Implants

Market Breakup by Material

- Hybrid
- Metals & Metal Alloys
 - ??- Stainless Steel
 - ??- Titanium Alloys
 - ??- Others

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- Polymers
- Ceramics
- Others

Market Breakup by End User

- Hospitals
- Ambulatory Surgical Centers
- Trauma Centers
- Others

Market Breakup by Region

- North India
- East and Central India
- West India
- South India

India Orthopedic Implants Market Share

Lower Extremity Implants to Hold a Substantial Market Share for Segmentation by Product

For market share by product, lower extremity implants, especially knee and hip replacements, account for a significant share due to the rising prevalence of osteoarthritis and an aging population. For instance, in January 2025 Alkem MedTech and U.S.-based Exactech Inc., entered a partnership marking the first design and technology transfer collaboration in India's musculoskeletal sector. This alliance enables Alkem MedTech to domestically manufacture and market Exactech's globally recognized joint replacement systems, including Truliant, Optetrak Logic, and Alteon. It strengthens India's capabilities in producing advanced orthopedic implants, reduces reliance on imports, and aligns with the Make in India initiative, positioning Alkem MedTech as a key player in the market. This development is expected to enhance affordability, surgeon confidence, and product accessibility. Other segments such as spinal and dental implants are emerging rapidly, fueled by lifestyle changes, increasing surgical interventions, and improved healthcare access.

India Orthopedic Implants Market Analysis by Region

North and South India to Account for a Significant Market Share by Region

Based on region, northern India (encompassing states like Delhi, Punjab, Haryana, and Uttar Pradesh) is characterized by high patient volumes, driven by its large population and increasing incidence of joint disorders and trauma cases. The region benefits from expanding government healthcare initiatives such as Ayushman Bharat, which have improved access to orthopedic surgeries in public hospitals. In contrast, southern India, including Tamil Nadu, Karnataka, and Kerala, leads in terms of healthcare infrastructure, clinical expertise, and adoption of advanced orthopedic technologies. Cities like Chennai, Bengaluru, and Hyderabad are hubs for joint replacement surgeries and medical tourism, attracting both domestic and international patients. With top-tier private hospitals, research institutions, and skilled surgeons, Southern India is driving innovation in implant procedures and rapidly adopting newer technologies such as customized and 3D-printed implants.

Leading Players in the India Orthopedic Implants Market

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The key features of the market report comprise patent analysis, funding and investment analysis, and strategic initiatives by the leading players. The major companies in the market are as follows:

Stryker Corporation

Stryker is a global leader in medical technologies, with a strong presence in India's orthopedic implant market. Its portfolio includes joint replacement systems (e.g., Triathlon knee, Exeter hip), trauma implants, spine solutions, and surgical navigation systems. In India, Stryker operates through distribution and local partnerships, offering advanced implant solutions and supporting surgeon training programs. It focuses on innovation in robotics (MAKO system) and digital surgery. Stryker's India operations reflect its broader mission of improving patient outcomes through precision implants, making it a trusted brand among top-tier Indian hospitals and orthopedic surgeons.

Zimmer Biomet

Zimmer Biomet is a prominent player in the global orthopedic implants industry, with a well-established footprint in India. The company offers a comprehensive product portfolio, including knee and hip implants (Persona, NexGen), trauma systems, sports medicine products, and robotic surgery platforms. Its solutions are used widely in both private and public healthcare sectors across major Indian cities. Zimmer Biomet India also supports continuing education for surgeons and partners with institutions to improve surgical outcomes. The company's focus on personalized care and digital technologies positions it as a key contributor to India's growing joint replacement market.

Smith & Nephew plc

Smith & Nephew has a long-standing reputation in orthopedics, specializing in joint reconstruction, sports medicine, and trauma solutions. In India, it offers implants for knees (LEGION), hips, and shoulder replacements, along with arthroscopy instruments and wound care products. The company supports surgical training and education initiatives across the country to enhance procedural adoption. Smith & Nephew leverages its innovation in minimally invasive surgery and has gained traction in India's urban healthcare centers. Its presence is growing in tier-2 markets as awareness of advanced orthopedic care increases, particularly in arthroscopy and sports injury management.

Johnson & Johnson MedTech

Johnson & Johnson MedTech, through its subsidiary DePuy Synthes, is a major player in the Indian orthopedic implants space. Its extensive portfolio includes joint replacement solutions (ATTUNE knee, CORAIL hip), trauma fixation devices, spine implants, and robotic-assisted surgery systems. The company has a long-standing presence in India, with investments in surgeon training, digital surgery platforms, and improving access to quality care. J&J MedTech aligns its operations with India's healthcare needs, offering both premium and cost-effective solutions. Its strong brand reputation, clinical support, and innovation in patient-specific implants make it a leader in the orthopedic segment.

Other players in the market include Medtronic PLC, B Braun Melsungen SE, Meril Life Sciences, and Globus Medical.

Key Questions Answered in the India Orthopedic Implants Market Report

- What was the India orthopedic implants market value in 2024?
- What is the India orthopedic implants market forecast outlook for 2025-2034?
- What are the major factors aiding the India orthopedic implants market demand?
- How has the market performed so far, and how is it anticipated to perform in the coming years?

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- What are the market's major drivers, opportunities, and restraints?
- What are the major India orthopedic implants market trends?
- Which product is expected to dominate the market segment?
- Which material is projected to lead the market segment?
- Which end user is expected to dominate the market segment?
- Who are the key players involved in the India orthopedic implants market?
- What are the current unmet needs and challenges in the market?
- How are partnerships, collaborations, mergers, and acquisitions among the key market players shaping the market dynamics?

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